

AMENDMENTS TO THE CLAIMS:

This listing of Claims will replace all prior versions, and listings, of Claims in the application:

Listing of Claims

1. (currently amended) An electrostrictive terpolymer consisting of:

vinylidene fluoride in the range of 65 mole % to 71 mole %;

trifluoroethylene in the range of 26 mole % to 33 mole %;

and

~~at least one~~ a third monomer, wherein said ~~at least one~~ third monomer is ~~an~~ a partially halogenated, ethylene-based monomer containing at least one non-fluorine halogen atom, and selected from the group selected from the group consisting of 1-chloro-2-fluoroethylene and 1-chloro-1-fluoroethylene ~~and said at least one monomer has at least one halogen atom side group is chlorine and wherein said at least one monomer~~ in the range of 1 mole % to 6 mole % and is a monomer that favors gauche-type linkage conformations along a the backbone of a the polymer

~~chains~~ chain of said terpolymer.

2. (cancelled)

3. (cancelled)

4. (cancelled)

5. (cancelled)

6. (cancelled)

7. (cancelled)

8. (currently amended) A method of synthesizing an
electrostrictive terpolymer film comprising steps of:

combining vinylidene fluoride in the range of 65 mole % to 71 mole %, trifluoroethylene in the range of 26 mole % to 33 mole %, and ~~at least one~~ a third monomer, wherein said ~~at least one third~~ monomer is ~~an~~ a partially halogenated, ethylene-based monomer containing at least one non-fluorine halogen atom, and is selected from the group consisting of 1-chloro-2-fluoroethylene and 1-chloro-1-fluoroethylene

in the range of 1 mole % to 6 mole % and ~~said at least one monomer has at least one halogen atom side group wherein said halogen side group is chlorine and wherein said at least one monomer~~ is a monomer that favors *gauche*-type ~~linkage~~ conformations along a the backbone of a the polymer ~~chain~~ chains of said terpolymer.

forming said terpolymer into a thin film by a process
selected from the group consisting of solvent casting
and extrusion; and

annealing said terpolymer.

9. (currently amended) The method of synthesizing an electrostrictive terpolymer film according to claim 8 wherein said non-fluorine halogen atom on said third partially halogenated, ethylene-based monomer is of a size sufficient to move said polymer chain away from ~~an~~ adjacent polymer ~~chain~~ chains without inhibiting the formation of polymer crystallites in said terpolymer.

10. (cancelled)

11. (cancelled)

12. (cancelled)

13. (cancelled)

14. (new) An electrostrictive terpolymer consisting of:

vinylidene fluoride;

trifluoroethylene; and

a partially halogenated, ethylene-based third monomer

containing at least one non-fluorine halogen atom and

wherein said partially halogenated, ethylene-based

monomer favors *gauche*-type conformations along the

backbone of the polymer chains of said terpolymer.

15. (new) The electrostrictive terpolymer in accordance with claim 14 wherein said non-fluorine halogen atom side group is of a size sufficient to move said polymer chains away from adjacent polymer chains without inhibiting the formation of polymer crystallites in said terpolymer.

16. (new) The electrostrictive terpolymer according to claim 14

wherein said third, partially halogenated, ethylene-based monomer is selected from the group consisting of 1-chloro-2-fluoroethylene and 1-chloro-1-fluoroethylene.

17. (new) The electrostrictive terpolymer according to claim 16 wherein said terpolymer comprises in the range of 65 mole % to 71 mole % vinylidene fluoride, 26 mole % to 33 mole % trifluoroethylene and 1 mole % to 6 mole % said third partially halogenated, ethylene-based monomer.

18. (new) The electrostrictive terpolymer according to claim 14 wherein said terpolymer comprises in the range of 65 mole % to 71 mole % vinylidene fluoride, 26 mole % to 33 mole % trifluoroethylene and 1 mole % to 6 mole % said third partially third partially halogenated, ethylene-based monomer.